

F. G. & A. E. HARRIS.
STANCHION.
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942,639.

Patented Dec. 7, 1909.

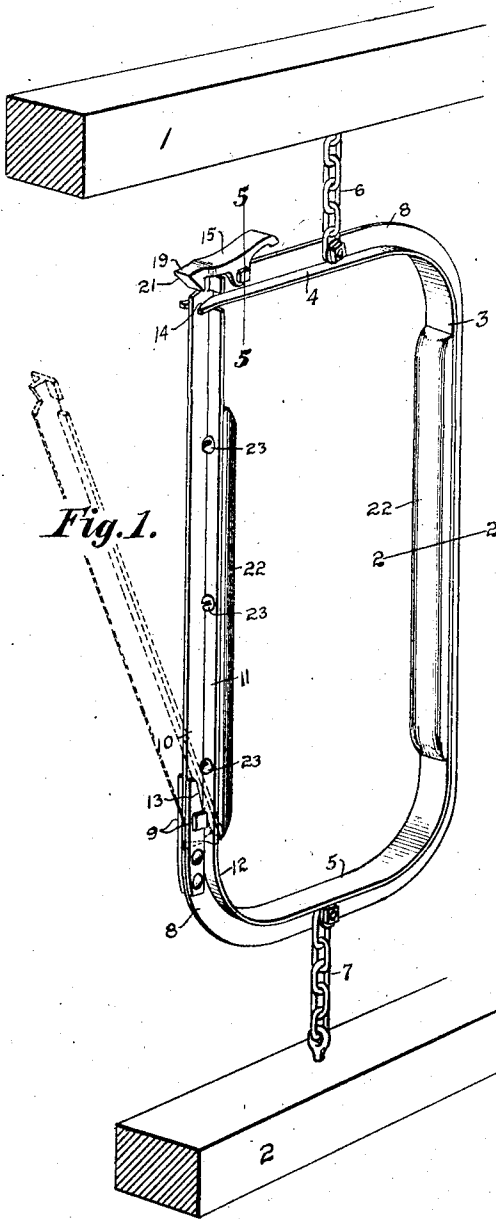


Fig. 1.

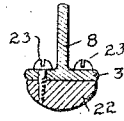


Fig. 2.

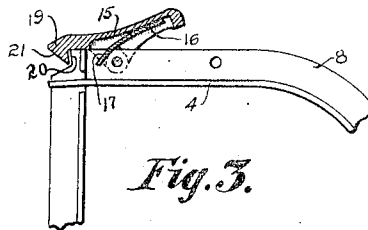


Fig. 3.

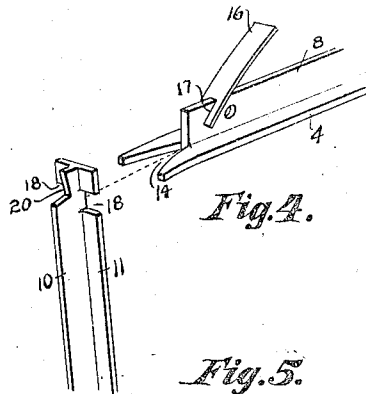


Fig. 4.

Fig. 5.

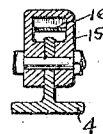
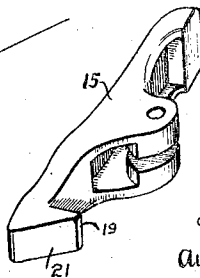


Fig. 6.



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UNITED STATES PATENT OFFICE.

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STANCHION.

942,639.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, FRANK G. HARRIS and AUGUSTUS E. HARRIS, both citizens of the United States, residing at Salem, in the county of Columbiana and State of Ohio, have jointly invented certain new and useful Improvements in Stanchions; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, and to the numerals and figures of reference marked thereon, in which—

Figure 1 is a perspective view showing the stanchion properly suspended and closed, showing the pivoted stanchion member open in dotted lines. Fig. 2 is a transverse section through line 2—2, Fig. 1. Fig. 3 is a view showing the relative positions of the stanchion body and the pivoted stanchion bar, said pivoted stanchion bar brought into position to be locked and a sectional view of the retaining catch. Fig. 4 is a view showing the pivoted stanchion bar detached from the stanchion frame and illustrating the catch actuating spring connected. Fig. 5 is a vertical section taken on line 5—5, Fig. 1. Fig. 6 is a detached underside perspective view of the catch or latch.

The present invention has relation to stanchions and it consists in the novel arrangement hereinafter described and particularly pointed out in the claim.

Similar numerals of reference indicate corresponding parts in all the figures of the drawing.

In the accompanying drawing, 1 represents the upper beam and 2 the sill, which parts are common in stanchions and are held in proper spaced relationship with reference to each other by common tie posts. The stanchion frame or what might be termed the relatively fixed member consists of the vertical portion 3 and the top and bottom angled portions 4 and 5, which parts are substantially of the form shown in Fig. 1. To the top angled portion 4 is attached the suspending chain 6, which suspending chain is connected to the beam 1 in any convenient and well known manner. To the bottom angled portion 5 is attached the holding chain 7 said chain being attached to the sill 2 in any convenient and well known manner. The object in providing the chain is to prevent undue swinging movement of the stanchion proper.

To the outer web 8 are securely attached the bars 9, which bars are spaced from each other a distance equal to the thickness of the web 8. The web 10 of the pivoted stanchion bar 11 is pivotally attached near its bottom or lower ends to the bars 9, said pivotal connection being so made that the bar 11 is hingedly attached to the upward curved portion 12, which upward curved portion is formed integral with the right angled portion 5.

For the purpose of limiting the outward movement of the stanchion bar 10, the upper inner edges of the bars 9 are beveled as illustrated at 13, which bars act as stops at the time when the outer faces of the stanchion bar 11 strike the beveled edges 13. The end of the horizontal portion 4 is provided with the V shaped recess 14, which V shaped recess is for the purpose of receiving the top or upper end of the stanchion bar 11.

To the horizontal portion 4 is pivotally attached the latch 15, which latch is substantially of the form shown in Fig. 6. The latch 15 is chambered upon its underside and is so chambered for the purpose of receiving the spring 16, which spring consists of a steel plate formed of suitable spring material, the lower end of said plate being seated in the notch 17 formed in the upper vertical web of the right angled portion 4.

For the purpose of allowing the top or upper portion of the stanchion bar 11 to enter the V shaped recess 14, the lateral flanges of said bar are cut away, thereby, producing the openings 18 so that the bifurcated end of the right angled portion 4 will be permitted to pass through the openings 18. The latch 15 is provided with the hooked end 19, which hooked end is so located that it will engage the extreme top of the stanchion bar 11, as best illustrated in Figs. 1 and 3.

For the purpose of preventing any accidental displacement of the latch 19 and also the accidental releasing of the stanchion bar 11, the top or upper end of said stanchion bar is provided with the inclined edge 20. It will be understood that when the stanchion bar 11 is brought into the position illustrated in Figs. 1 and 3 its extreme top will ride under the beveled face 21 and lift the latch and after the stanchion bar has fully passed the hooked end, the spring 16 will automatically lower the hooked end of the latch and thus engage the extreme top

of the stanchion bar 11. When it is desired to release the stanchion bar the inner end of the latch is pressed downward, thereby, elevating the hooked end of the latch thereby releasing the stanchion bar 11 after which said bar is free to turn upon its pivotal point until the outer faces strike the beveled edges 13.

Owing to the fact that the stanchion bars are preferably formed of metal, their inner faces should be lined with wood strips, 22, which strips may be attached in any convenient and well known manner preferably by means of the screws 23.

Having fully described our invention, what we claim as new and desire to secure by Letters Patent, is—

In a stanchion, the combination of a stanchion frame consisting of a vertical and upper and lower angled portions, means for suspending said stanchion frame, spaced

bars secured to the lower portion of the frame, the top or upper ends of said bars provided with beveled inner edges, a stanchion bar pivoted at its bottom or lower end to the frame, said bar adapted to strike the beveled edges of the spaced bars, a pivoted latch secured to the upper angled portion of the frame and the pivoted stanchion bar adapted to engage the latch secured to the stanchion frame and a spring connected to the stanchion frame and adapted for engagement with the latch, substantially as and for the purpose specified.

In testimony that we claim the above, we have hereunto subscribed our names in the presence of two witnesses.

FRANK G. HARRIS.

AUGUSTUS E. HARRIS.

Witnesses:

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K. L. WEBSTER.